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MILL AND STORED-GRAIN INSECTS AND HOW THEIR RAVAGES MAY BE REDUCED

A Brief Summary of a Bulletin Just Issued by Department of Entomology of the State Agricultural College, Which Treats in an Exhaustive Manner of These Costly Pests.

[By George A. Dean, Entomologist at K. S. A. C.]

A BULLETIN treating of the mill and stored-grain insects has just been issued by the Department of Entomology of the Kansas State Agricultural College and Experiment Station.

Within the last hundred years a large number of very serious mill and stored-grain insects have been introduced into this country, and since they have been allowed to increase and steadily gain a foothold, we now have them to reckon with in nearly every flour mill, flour warehouse, elevator and granary throughout the United States. The most competent authorities believe that on an average five per cent of all stored-grain products in the United States is lost through the attack of insects. This loss is usually so constant that few realize the enormous amount when considered in the aggregate, which annually in the United States amounts to more than one hundred million dollars. Just what this loss in dollars and cents is in Kansas cannot be given, but with such a large representation of the insect pests which infest stored grains and mill products, an estimated injury of five per cent is a very reasonable and probably minimum figure. Thus, Kansas, as one of the great grain and milling states, has an annual loss of several million dollars. It is with an idea of helping the farmer and miller reduce their loss that the bulletin is published.

About two-thirds of the bulletin is devoted to measures of control, and the remainder to the life history and habits of the common stored-grain and mill insects. Under the discussion of the useful methods of control much emphasis is laid on preventive methods. It states that a large proportion of insect infestation in granaries, flour mills, elevators and warehouses

of time a temperature of 118 degrees-122 degrees F. Several flour mills in Ohio, Illinois, Iowa, Indiana, Colorado, Southern Canada, and elsewhere, have corroborated the practicability and the efficiency of heat as a means of controlling mill insects. The bulletin clearly brings out the fact that a mill which has sufficient radiation to heat it in winter to a temperature of 70



Kernels of wheat showing the work of the Angoumois grain moth, 2 1/2 times natural size.

degrees can readily be heated in summer to a temperature of from 118 degrees-122 degrees, and that there is no danger of injuring the mill machinery and practically no danger from fire.

Considerable space is given in the bulletin to the hydrocyanic acid gas fumigation, which up to the time of the discovery of the heat method was considered the most effective means for the control of mill insects. The experiments show that while some mill insects succumb very readily to the hydrocyanic acid gas, others, including some of the most serious ones, do not yield readily to the treatment.

The bulletin states that the insects destructive to grain stored in granaries and small elevators, when once started, work so vigorously that the farmer must kill them, dispose of his grain, or allow them seriously to damage it. Of the several species of beetles and their larvae attacking stored grains, not more than five or six are commonly found in the farmers' bins, of which the two species of grain weevils (snout beetles or little "bill bugs"), the grain molder, the cadelle, and the saw-toothed grain beetle are the most damaging. To these may be added three species of moths, the Angoumois grain moth, which is the most serious attacking corn, and the two meal moths, the serious ones in meal, bran, or any other ground grain products.

Fortunately, it matters little what species may be causing the trouble, for all succumb to the same treatment. The simplest most effective, and least expensive remedy for all insects infesting the farmers' grain and grain products stored in tight bins is careful fumigation with carbon bisulphide. If the building is reasonably airtight, and the temperature is above 70 degrees F., four pounds of carbon bisulphide is sufficient for every one thousand cubic feet of space, or one pound for every thirty-five bushels of grain.

The principal damage to whole grains is caused by the grain weevil, rice weevil, and the Angoumois grain moth. The most serious damage and loss in the flour mills is caused by the Mediterranean flour moth. The principal injury to flour is caused by the confused flour beetle and the cadelle, while the serious damage to meal, bran and breakfast foods is caused by the Indian meal moth, the meal snout-moth and the saw-toothed grain beetle.

The bulletin contains one hundred pages, and is well illustrated with fifty-five illustrations. Anyone desiring a copy may secure it by writing to the director of the Kansas Experiment Station, Manhattan, Kas.



Kernels of corn showing the work of the larva of the Angoumois grain moth, 1 1/2 times natural size.

is directly traceable to a disregard to cleanliness, and that it is therefore very important to keep the flour mill and all places where grain is stored scrupulously clean.

The author of the bulletin has visited many flour mills throughout this country, and has made inspections of the principal ports along the Gulf, the Great Lakes and the Atlantic seaboard and of those in Europe through which flour and grain are handled and is convinced not only that insect infestation is one of the important problems connected with the milling industry, but also that the present methods of combatting many of these pests are inadequate, and that something more effective must be done if we are to control them.

The bulletin states that the only practical and efficient method at present known of completely controlling all classes of mill-infesting insects is by the application of high temperatures, and in Kansas where this method was developed by the Kansas State Experiment Station, it has been absolutely proven that no stage of a mill insect, even in the most inaccessible places, could withstand for any length

THE COLLEGE HERD WON MANY PRIZES

Eighteen blooded steers were entered at the International Live Stock Exposition in Chicago this fall by the Kansas Agricultural College. The same herd was exhibited by the college at the state fairs and at the American Royal in Kansas City. Here is a roster of the herd with the prize won by each up to the International show this year:

Greenwood—Pure-bred, two-year-old Hereford steer. First prize winner at Topeka and Hutchinson State Fairs, 1913. Third at American Royal. Beau Talent—Pure-bred, junior yearling Hereford steer. First and champion at Topeka and Hutchinson State Fairs. Second at American Royal. Fancy Beau—Pure-bred, junior yearling Hereford steer. First at International, 1912. Third at American Royal. Fourth at Hutchinson State Fair. College Beau—Senior, pure-bred Hereford calf. Third at Hutchinson State Fair. Fourth at American Royal. Royal Prince—Pure-bred, junior Hereford calf. Not previously shown. Beau Hazen—Pure-bred, junior Hereford calf. Second at American Royal. Maple Boy—Grade, two-year-old Hereford steer. Second at Topeka and Hutchinson State Fairs

and American Royal. College Mina—2d—Junior yearling. Hereford-Angus crossbred spayed heifer. First at International, 1912. Second at American Royal. Mischievous—Grade Hereford calf. Third at American Royal. Delighted—Pure-bred, junior yearling Shorthorn steer. First at International. Second at American Royal. College Boy—Pure-bred senior Shorthorn calf. First at Topeka and Hutchinson State Fairs and at American Royal. Champion over all breeds at the Missouri State Fair. Kansas Dale—Pure-bred, junior Shorthorn calf. Not previously shown. Golden Dale—Pure-bred, junior Shorthorn calf. Fourth at American Royal. Dr. Hendricks—Pure-bred, two-year-old Aberdeen-Angus steer. Third at American Royal. Fletcher—Pure-bred, junior yearling Aberdeen-Angus steer. Third at American Royal. Baldy Stewart—Pure-bred, senior Aberdeen-Angus calf. Second at American Royal. Third at Topeka State Fair. Fourth at Hutchinson State Fair. Queen's Prince 5th—Pure-bred, junior Aberdeen-Angus calf. Third at American Royal. Medalist—Pure-bred, junior yearling Galloway steer. First at American Royal. Second at International.

Farm Loans

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GREAT BEND, KANSAS

Deputy Sheriff Sam Shattuck was over from Holsington on business on Wednesday.

Oscar Johnson went to Wichita Sunday, having taken a position with the Port Huron Threshing Machine Co. He will have charge of the shop work until spring opens up and will then go on the road.

(First Published in the Barton County Democrat Jan. 16, 1914.)
NOTICE OF FINAL SETTLEMENT.

State of Kansas, Barton County, SS. In the Probate Court in and for said County.

In the Matter of the Estate of H. F. Panning, Deceased.

Creditors and all other persons interested in the aforesaid estate, are hereby notified that at the regular February term of the Probate Court in and for said County, to be held in the Probate Court room in Great Bend, and County of Barton, State of Kansas; on the 10th day of February, A. D., 1914, I shall apply to the said Court for a full and final settlement of said estate, and at such time application will be made for an order of the Court finding and adjudging who were the heirs of said deceased.

MATILDA PANNING, Executrix

of the estate of H. F. Panning, deceased.
Dated January 8, 1914.

(First Published in the Barton County Democrat, Jan. 2, 1914.)
NOTICE OF FINAL SETTLEMENT.

State of Kansas, Barton County, SS. In the Probate Court in and for said County.

In the Matter of the Estate of Frank Ricker, Deceased.

Creditors and all other persons interested in the aforesaid estate, are hereby notified that at the regular January term of the Probate Court in and for said County, to be held in the Probate Court room in Great Bend, and County of Barton, State of Kansas; on the 27th day of January, A. D. 1914, I shall apply to the said Court for a full and final settlement of said estate, and at such time application will be made for an order of the Court finding and adjudging who were the heirs of said deceased.

MRS. OHM, nee RICKER, Administratrix

of the estate of Frank Ricker, deceased.
(First Published in the Barton County Democrat Jan. 9, 1914.)

NOTICE OF FINAL SETTLEMENT.

State of Kansas, Barton County, SS. In the Probate Court in and for said County.

In the Matter of the Estate of Elizabeth Tockert, Deceased.

Creditors and all other persons interested in the aforesaid estate, are hereby notified that at the regular January term of the Probate Court in and for said County, to be held in the Probate Court room in Great Bend, and County of Barton, State of Kansas; on the 31st day of January, A. D. 1914, I shall apply to the said Court for a full and final settlement of said estate, and at such time application will be made for an order of the Court finding and adjudging who were the heirs of said deceased.

NICK TOCKERT, Executor

of the estate of Elizabeth Tockert, deceased.
Dated January 7, 1914.

(First Published in the Barton County Democrat, Jan. 2, 1914.)
NOTICE OF FINAL SETTLEMENT.

State of Kansas, Barton County, SS. In the Probate Court in and for said County.

In the Matter of the Estate of Andrew Wirtz, Deceased.

Creditors and all other persons interested in the aforesaid estate, are hereby notified that at the regular January term of the Probate Court in and for said County, to be held in the Probate Court room in Great Bend, and County of Barton, State of Kansas; on the 27th day of January, A. D. 1914, I shall apply to the said Court for a full and final settlement of said estate, and at such time application will be made for an order of the Court finding and adjudging who were the heirs of said deceased.

PETER J. WIRTZ, Executor

of the estate of Andrew Wirtz, deceased.
Dated December 29, 1913.

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John Welsh was in from Liberty township Saturday, looking after business matters and visiting with old friends.

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WEST COMANCHE

Special Correspondence

Mr. Kriosek and family visited at the McCullough home last Sunday. Puddle Bryant gave his friends a social dance last Saturday night. Henry DeWitt and Oscar Maunip are hauling hay from the Salt Marsh. Buck Scheuffer and wife visited down east Sunday. Bunk Hewitt says he is going to quit work as he has purchased three hounds to catch coyotes.

Hank Foelger says he is going to Kansas City to get doubled up. He wants to be careful or he might never get straightened out again.

Henry Mische must be a live wire, judging from the way the sparks have been flying lately.

Clarence Buckbee and Dock Zirnich called on Crow Foelger last Sunday. H. A. Fletcher made a business trip to Ellinwood Saturday.

Henry DeWitt and family visited with Mr. and Mrs. Pete Scheuffer on Sunday.

F. N. Butchman, Dave Campbell and the Flanders boys sawed wood last week. You ought to have seen Henry Mische throw blocks after they got to Campbell's.

NO NEED TO STOP WORK.

When the doctor orders you to stop work it staggers you. I can't, you say. You know you are weak, run down and failing in health day by day, but you must work as long as you can stand. What you need is Electric Bitters to give tone, strength and vigor to your system, to prevent break down and build you up. Don't be weak, sickly or ailing when Electric Bitters will benefit you from the first dose. Thousands bless them for their glorious health and strength. Try them. Every bottle is guaranteed to satisfy. Only 50c. at Holmes' Drug Store.

Mrs. Max Shaffer returned last week from a visit of several weeks with relatives and friends in Kansas City.

TALK IS INCONSISTENT.

Our republican brethren are now boiling over with indignation on account of the fact that some cattle, eggs and meat are being shipped into this country. Their editorials hammer away at the free meat provision of the new tariff bill and they are busy trying to create a prejudice on the same among the farmers. Yet we need fear no foreign imports of farm products as long as beef brings from \$7.50 to \$9.00 on the hoof in Kansas City and eggs sell at from 30 to 40 cents a dozen, we are not worrying.

The editor of the Lawrence Journal-World told his readers that corn was lower than in years, and the farmer had none to sell. That must have been a misprint, for we hardly believe friend Brady would have misquoted the market. He knows that corn is selling at 85 cents now and is being shipped in. If we can get corn, cattle and eggs at more reasonable figures, it would be a God-send just now.

Meat products are higher in the foreign countries than here because the shortage is greater than it is here. Let no farmer be misled by such partisan opinions on the tariff. The farmer has never had any protection, has never asked for it and does not need it. But he has purchased his needs from a protected manufacturer and paid the price. The efforts of the late protected interests to mislead the farmers are on a par with the actions of the big financiers when they rushed into an artificial and personally conducted season of panic in money matters in 1907. The game of deception has been played for years on both these leading questions and the people are aware of it and take no more notice of it.—Lawrence Democrat.

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